

Applicant: Gou Kojima, et al.

Title: User Interface Integration Method

Atty Docket No. 16869S-035700

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FIG. 1

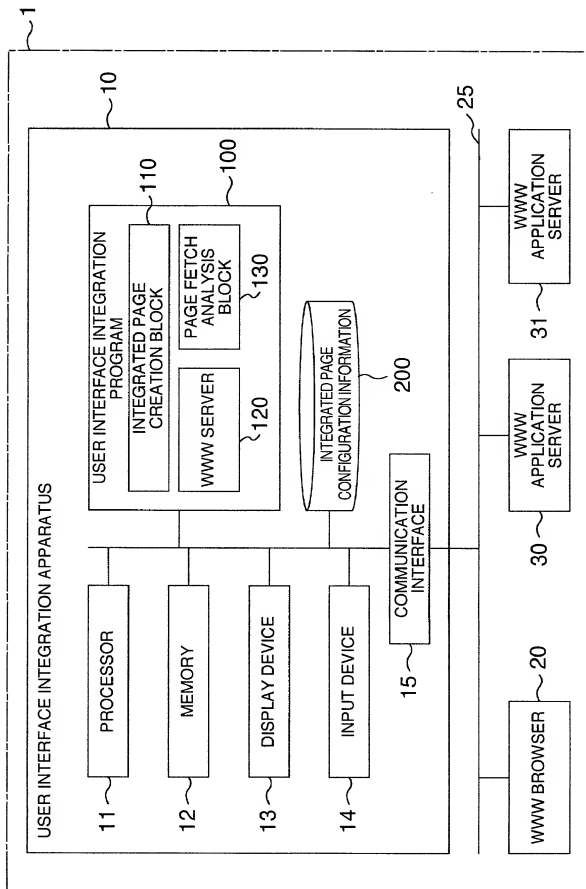


FIG.2

300

INTEGRATED PAGE ID	CONFIGURATION PAGE TABLE	COPY DATA TABLE
sales-inventory	P310	P320
⋮	⋮	⋮

}
}
}

301
302
303

FIG.3

310

NUMBER	URL
1	http://www.salesorder.com
2	http://www.inventory.com/inventory.html

}
}

311
312

FIG.4

320

COMMON ITEM ID	PAGE SPECIFICATION NUMBER	FIELD	IN/OUT
itemID	1	document.form1.shouhinID	OUT
itemID	2	document.inputform.item	IN
⋮	⋮	⋮	⋮

321 322 323 324

FIG.5

ORDER-RECEPTION
CONFIRMATION

GOODS NUMBER 00128453

DATA 2000-08-02

QUANTITY 7

PRICE 368,700

OK

50

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FIG. 6

**EXAMPLE OF PAGE SUBJECTED
TO INTEGRATION UI
(ORDER-RECEPTION CONFIRMATION)**

```

1: <HTML>
2: <HEAD>
3: <TITLE> ORDER-RECEPTION CONFIRMATION </TITLE>
4: </HEAD>
5: <BODY>
6: <FORM name="form1">
7: GOODS NUMBER
8: <INPUT name="shouhinID"
9:     type="TEXT">
.
.
.
</FORM>
</BODY>
</HTML>

```

60

FIG. 7

INVENTORY CHECK PAGE

GOODS CODE

RETRIEVAL

70

FIG.8

**EXAMPLE OF PAGE SUBJECTED TO
 INTEGRATION UI(INVENTORY CHECK)**

```

1: <HTML>
2: <HEAD>
3: <TITLE>INVENTORY CHECK PAGE </TITLE>
4: </HEAD>
5: <BODY>
6: <FORM name="inputform">
7: GOODS CODE
8: <INPUT name="item"
9:      type="TEXT">
  .
  .
  .
  </FORM>
  </BODY>
  </HTML>
  
```

80

FIG.9

90

ORDER-RECEPTION / INVENTORY CONFIRMATION									
GOODS NUMBER	<input type="text" value="00128453"/>								
DATE	<input type="text" value="2000-08-02"/>								
QUANTITY	<input type="text" value="7"/>								
PRICE	<input type="text" value="368,700"/>								
<input type="button" value="OK"/>									
GOODS CODE	<input type="text"/>								
<input type="button" value="RETRIEVAL"/>									
	<table border="1"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table>								

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1000

```

1: <HTML>
2: <HEAD>
3: <TITLE>sales-inventory</TITLE>
4: <SCRIPT SRC="ui-integration.js">
5: </HEAD>
6: <BODY onload="registConsumer('itemID', document.inputForm.item);">
7: <TABLE><TR>
8: <TD>
9: <FORM name="form1" action="http://ui-integrator/salesorder/sales-confirmation.jsp">
10: GOODS NUMBER
11: <INPUT name="name"
12: type="TEXT"
13: onChange="dataCopy('itemID',this.value);">
.
.
.
</FORM>
</TD>
<TD>
.
.
.
</TD>
<TR></TABLE>
<BODY>
</HTML>

```

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FIG. 11

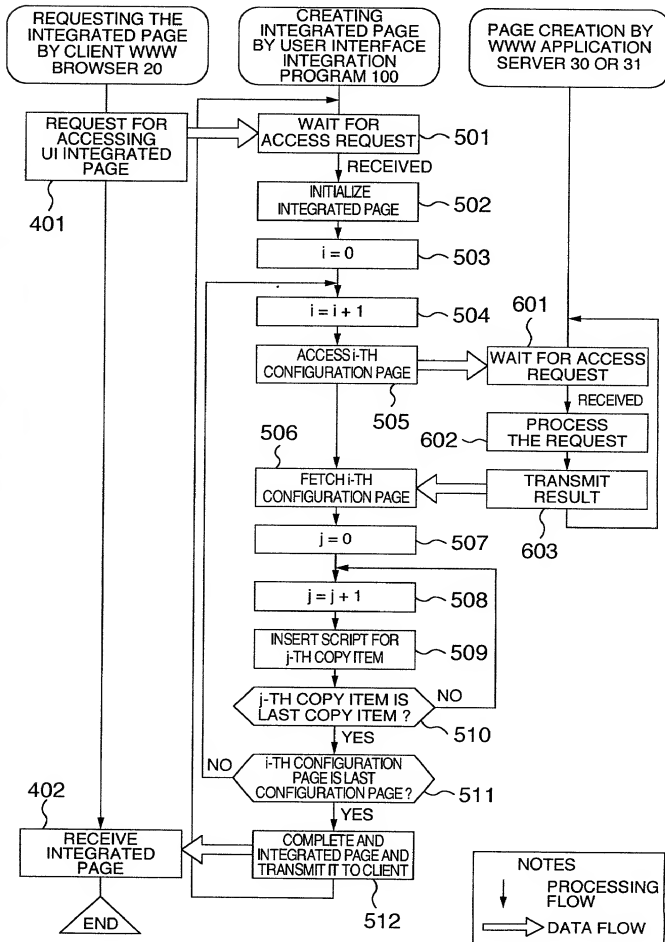
1100

```

SCRIPT FOR COPYING("ui-integration.js")
1: data_table=new Array(50);
2: consumer_table=new Array(50);
3: consumer_table_counter=new Array(50);
4: tableCounter=0;
5: function registConsumer(data, consumer){
6:   for(i=0;i<tableCounter;i++){
7:     if(data_table[i]==data){
8:       break;
9:     }
10:  }
11:  if(i<tableCounter){
12:    consumer_table[i][consumer_table_counter[i]]=consumer;
13:    consumer_table_counter[i]=consumer_table_counter[i]+1;
14:  }else{
15:    data_table[tableCounter]=data;
16:    consumer_table[tableCounter]=new Array(50);
17:    consumer_table_counter[tableCounter]=0;
18:    consumer_table[tableCounter][consumer_table_counter[tableCounter]]=consumer;
19:    consumer_table_counter[tableCounter]=1;
20:    tableCounter++;
21:  }
22: }
23: function dataCopy(data,value){
24:   i=0;
25:   for(i<tableCounter;i++){
26:     if(data_table[i]==data){
27:       break;
28:     }
29:   }
30:   if(i<tableCounter){
31:     for(j=0;j<consumer_table_counter[i];j++){
32:       consumer_table[i][j].value=value;
33:     }
34:   }
35: }

```

FIG.12



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FIG. 13

EXAMPLE OF TEMPLATE SCRIPT (USING JSP)

```

1: <HTML>
2: <HEAD>
3: <TITLE> ORDER-RECEPTION-INVENTROY INTEGRATION PAGE</TITLE>
4: <SCRIPT SRC="ui-integration.js">
5: <HEAD>
6: <BODY>
7: <%@ page import="HTMLParserBean"%>
8: <jsp:useBean id="parser" class="HTMLParserBean" scope="session" />
9: <TABLE><TR>
10: <TD>
11: <%
12:     parser.setDocument("http://www.salesorder.com/salesorder.html");
13:     parser.insert("document.body.@",
14:         "onload=%$registConsumer('itemID',document.form1.shouhinID);";
15:         "onChange=%$dataCopy('itemID',this.value);%$");
16:     parser.exchange("document.form1.@action",
17:         "action=%$http://ui-integrator/salesorder.jsp;%$");
18:     out.println(parser.getDocument());
19: %>
20: </TD>
21: </TR>
    .
    .
    .
    <TR></TABLE>
</BODY>
</HTML>

```

1300

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FIG.14

700

COMMON ITEM ID	PAGE SPECIFICATION	FIELD	IN/OUT
itemID	http://www.salesorder.com(document.html.head.title="ORDER-RECEPTION CONFIRMATION PAGE")	document.form.shouhinID	OUT
itemID	http://www.inventory.com/inventory.html	document.inputform.item	IN
.....